

ABSTRACT

*Sub B1*

Disclosed is an optical glass having high-  
5 refractivity and low-dispersion optical properties and having  
a low glass transition point so that a heat-treating furnace  
can be operated for a long period of time.

The present invention provides an optical glass  
having a refractive index  $n_d$  of at least 1.875, an Abbe's  
10 number  $v_d$  of at least 39.5 and a glass transition point  $T_g$  of  
700°C or lower, an optical glass which is a borosilicate  
glass comprising at least one selected from  $La_2O_3$ ,  $Gd_2O_3$ ,  $Y_2O_3$   
or  $Yb_2O_3$  and at least one selected from  $ZrO_2$ ,  $Ta_2O_5$  or  $Nb_2O_5$ ,  
wherein the ratio (weight ratio) of the total content of  
15  $La_2O_3$ ,  $Gd_2O_3$ ,  $Y_2O_3$  and  $Yb_2O_3$  to the total content of  $SiO_2$  and  
 $B_2O_3$  is from 3.2 to 5 and the ratio (weight ratio) of the  
total content of  $ZrO_2$ ,  $Ta_2O_5$  and  $Nb_2O_5$  to the total content of  
 $SiO_2$  and  $B_2O_3$  is from 1.1 to 1.5, and which has a refractive  
index  $n_d$  of at least 1.875 and an Abbe's number  $v_d$  of at  
20 least 39.5, and the like.